



Civil Engineering

QUANTITATIVE MASK FIT TEST PROGRAM

COMPLIANCE WITH THIS PUBLICATION IS MANDATORY

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This instruction implements Air Force Policy Directive 32-40. Procedural guidance for completing the initial mask fit testing is IAW AF Manual 32-4006, *Manual for Mask Confidence and Liquid Hazard Simulant Training* and AFRC Quantitative Mask Fit (QNFT) Guide. It applies to all Reserve members of the 913th Airlift Wing, Willow Grove Air Reserve Station, Pennsylvania as well as the 92nd Aerial Port Squadron at Wyoming Valley, Pennsylvania.

1. Purpose. Mask fit testing checks the fit and operation of an individual's assigned mask. It enhances defense survivability by helping personnel become more confident in the mask's protection.

2. Applicability. The mask fit test **MUST** be accomplished using the individual's assigned mask. Mask fit testing must be accomplished on all personnel deploying to or deployable to an Nuclear, Biological, or Chemical (NBC) medium or high threat area, prior to deployment or by 30 Sep 2001, whichever comes first. This program applies to the groundcrew MCU-2/P series mask. It does not include or apply to the aircrew mask, however aircrew members must accomplish the fit test on their assigned groundcrew mask. Mask fit testing must also be accomplished prior to deployment for Aerospace Expeditionary Force (AEF) and peace-keeping missions.

3. Timetable. HQ AFRC has directed a two-year completion date for the initial testing of all applicable personnel. Upon completion of the Initial Mask Fit Testing Program, repeat testing will be accomplished as follows:

3.1. When a new mask is issued.

3.2. When an individual experiences difficulty with negative pressure self-checks (clearing and sealing).

3.3. If the individual gains/loses 10% or more (pounds) of body weight.

3.4. If the individual receives extensive dental work, upper/lower dentures, facial surgery, scarring, or disfigurement.

4. Procedure. There are four M41 mask fit machines on Willow Grove ARS. Two machines belong to the 913th Readiness Flight, and two belong to the 111th Readiness Flight. The 913th Readiness Flight and Bioenvironmental Engineering offices have agreed to combine efforts to form a Mask Fit Team in order to complete the initial testing. Mask fit testing takes approximately 10 minutes to complete. Because the mask fit test is a pass/fail test, it must be reaccomplished, if failed. This will add to the total time required to complete the test.

4.1. Mask fit testing will be accomplished during the UTA and week days as follows:

4.1.1. UTA Testing.

4.1.1.1. The unit DP Reps will contact the Readiness Flight to schedule a specific UTA to begin testing their personnel. To avoid scheduling conflicts, drop-ins will not be allowed.

4.1.1.2. The Mask Fit Team will bring mask fit machines to the unit, set up for testing, and conduct as many tests as possible in the allotted time. UTA mask fit testing may be scheduled for UTA Saturdays for a two-hour block from 0900-1100 or 1330-1530 hrs. Larger units may be required to schedule testing over several UTA's to complete testing. Mask fit testing for newcomers should be coordinated with the Readiness Flight upon issue of a mask. Units that frequently deploy, or are most likely to deploy should begin scheduling personnel as soon as possible.

4.1.1.3. Individuals deploying to a medium or high threat area within 30 days must schedule mask fit testing with the Readiness Flight on the UTA prior to their departure. They will be directed to the location where testing is being conducted for that UTA.

4.1.2. Weekday Testing. Individuals may schedule a mask fit test on any Tuesday or Thursday from 1330-1530. DOD Civilians subject to deployment must be issued a mask and scheduled for mask fit testing. Just-In-Time Training for SFS personnel departing from Willow Grove ARS to support peace-keeping missions will include mask fit testing, if required. For SFS personnel from other units tasked to depart from Willow Grove ARS, all efforts should be made to accomplish mask fit testing prior to leaving their unit.

4.2. 913 AW/XP Responsibility. Develop procedures to ensure personnel deploy carrying the same mask worn for their mask fit test. Mask fit test documentation in mobility folder should match the copy inside the mask carrier. Procedures should be for both real-world and exercise deployments. Discrepancies should be brought to the attention of both the unit commander and deployment manager for resolution.

4.3. Unit Responsibility. The assigned DP Representatives will be responsible for:

4.3.1. Scheduling unit personnel for testing.

4.3.2. Ensuring individuals have a specific mask assigned, are tested with this same mask, and the mask they test with is the same mask they will deploy with. This may require coordination with the unit deployment and equipment managers, and with 913th Supply.

4.3.3. Coordinating the location for testing, and ensuring a steady flow of personnel for testing. If testing is done at the unit, a table, two chairs, and a nearby electrical outlet are required.

4.3.4. Ensuring masks are cleaned and inspected prior to mask fit testing. Special attention should be paid to the mask head harness, inlet, outlet and noseclip valves.

4.3.5. Ensure one copy of the mask fit documentation is placed in the individual's mobility folder.

4.3.6. Coordinating with the unit equipment manager to provide a 100% inventory of masks assigned to the unit. This inventory should include the individual's name/rank, duty phone, mask size, national stock number, and mask lot number. Forward inventory to 913 LSS/LGSD (Base Supply), with confirmation of completed inventory to the Readiness Flight. This will assist in maintaining accountability, and determining scheduling requirements.

4.4. The individual will be responsible for:

4.4.1. Cleaning, inspecting, and properly sizing assigned mask, and ensuring it is operational before testing.

4.4.2. Completing the Member Information section of the 913th Airlift Wing MCU-2/P Series Mask Fit Test Form.

4.4.3. Not wearing lotion, perfume, or cologne; using mouthwash; smoking; eating, drinking, or chewing gum for at least 30 minutes before scheduled test.

4.4.4. Not chewing gum during the test.

4.4.5. Females will remove earrings and hair fasteners (bands, clips and pins) and let hair hang freely before donning the mask for the test.

4.4.6. Wearing combat spectacle inserts, if required, during mask fit testing. Contact lenses will not be worn.

4.4.7. Maintaining one copy of mask fit documentation inside assigned mask carrier.

4.5. Bioenvironmental Engineering will be responsible for:

- 4.5.1. Providing Mask Fit Team members for UTA testing.
- 4.5.2. Assisting the Readiness Flight as needed in managing the 913th Initial Mask Fit Test Program.
- 4.6. The Readiness Flight will be responsible for:
 - 4.6.1. Scheduling and providing mask fit test materials.
 - 4.6.2. Documenting individual test results and maintaining a database of all mask fit tests for program tracking.
 - 4.6.3. Providing the unit DP Rep and individual with a copy of test results.
 - 4.6.4. Provide quarterly reports on the status of (tests completed and failures) the 913th AW Initial Mask Fit Test to HQ AFRC and the 913th Airlift Wing Commander.
 - 4.6.5. Including Initial Mask Fit Testing status in the Readiness Flight Self-Inspection and DP SAV Programs.
 - 4.6.6. Notifying the unit and group commanders in writing when an individual cannot attain the minimum target fit factor of 2000.
 - 4.6.7. Exhausting all feasible options to attain the highest fit factor possible with testing individuals.
 - 4.6.8. Training Mask Fit Team members, and coordinating with Bioenvironmental Engineering when additional assistance is required.
 - 4.6.9. Budgeting, ordering and maintaining assigned mask fit equipment and supplies.
 - 4.6.10. Ensuring M41 machines receive periodic calibration and maintenance.
 - 4.6.11. Maintaining applicable directives, technical data, and associated documentation.
 - 4.6.12. Forwarding a copy of the completed mask inventory for all units to HQ 622 RSG.
 - 4.6.13. Briefing commanders on the status of the program at the regularly scheduled Readiness Council meetings. Topics will include unit and overall percentage tested, failure rate with explanations (i.e. failure to bring spectacle inserts/spectacle inserts themselves, beard/shaving waiver, hair impediment, indications of smoking prior to test, excessive make-up, or after-shave, cologne/perfume odors), additional problems/solutions.
 - 4.6.14. Coordinating with 92 APS to ensure personnel are mask fit tested.

4.6.15. Developing a standardized database to include both NBC Defense Training and Quantitative Mask Fit Test.

4.6.16. Coordinating with the 111th FW Readiness Flight to ensure sufficient M41 Mask Fit machines are available meet the mask fit test requirements for both wings.

4.7. Unit Commander. If, after 3 attempts, an individual cannot attain the minimum target fit factor of 2000, a determination must be made to remove or keep the individual on mobility or obtain an Extra-Small size M17 series mask, if required, through supply channels. If the individual is removed from mobility or relieved from the deployment tasking, another person from the unit will be selected to fill the rotational requirement. The individual will not be separated from the Air Force. Individuals with beards/shaving waivers will not be mask fit tested. Units will be notified in writing when an individual fails the third attempt to attain the minimum fit factor. Waivers to the fit tests should be attached to the letter of notification and placed in the individual's mobility folder, with a copy forwarded to the Readiness Flight. Coordinate with the unit First Sergeant to notify the Readiness Flight and schedule a retest when an individual has a change in eyewear, changed masks, or 10% gain/loss in body weight.

CHARLES D. ETHREDGE, Col, USAFR
Commander

913th Airlift Wing - MCU-2/P Series Mask Fit Test

<p>MEMBER INFORMATION To be completed prior to arrival for test Print LEGIBLY in ink (Privacy Act of 1974)</p> <p>Date/Time_____</p> <p>Full Name_____</p> <p>Rank/SSAN_____</p> <p>Gender: Male Female</p> <p>Weight_____</p> <p>AFSC_____</p> <p>Squadron/Office Sym_____</p> <p>Do you have spectacle inserts on hand? (if required) Yes No</p> <p>Are you wearing make-up, cologne or after-shave? Yes No (must be removed prior to test)</p> <p>Have you smoked, eaten, drank, or used mouthwash in the past 30 min? Yes No</p> <p>Mask Lot #_____</p>	<p>To be completed by Mask Fit Team <u>BEFORE</u> THE TEST</p> <p>Head Harness Type: Strap Skull</p> <p>Test Attempt 1st 2nd 3rd</p> <p>Normal Breathing (Fit Factor) _____</p> <p>Deep Breathing (Fit Factor) _____</p> <p>Side-to-Side (Fit Factor) _____</p> <p>Up-Down (Fit Factor) _____</p> <p>Rotate Chin (Fit Factor) _____</p> <p><u>Final</u> Fit Factor(s) (Fit Factor) _____</p> <p>Remarks_____</p> <p>_____</p> <p>_____</p> <p><u>AFTER</u> THE TEST</p> <p>End Time: _____ Total Time: _____</p> <p>Pass? Yes No # of Attempts_____</p>
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Has mask been cleaned & inspected prior to test? Yes No	Total fit test time in minutes_____
Location _____ of test_____	Mask Size: S M L XS(M17) <u>Mask Fit Team Member</u>
Reason for Fit Test: (Circle One) Scheduled/Routine Newcomer	Name/Rank_____
Deployment _____ New Mask	Signature_____
10% or Greater Change in Body Weight	
Following a Medical Evaluation Dental Surgery	